

Wisconsin Department of Transportation
STREAMS AND FLOODPLAINS IMPACT EVALUATION

Alternative: 3, 4 Preferred? Not Selected	Length of Center line and termini this sheet is evaluating (if different from Sheet 1)
1) Name of Stream Fox River	2) Location of Stream Section 27, T23N, R20E
3) Stream Type Indicate Stream Class if Known <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Warm water <input type="checkbox"/> Trout-Class	4) Size of upstream Watershed Area 6,330 square miles (USGS, 1998) <input checked="" type="checkbox"/> Permanent Flow (year-round) <input type="checkbox"/> Temporary Flow (dry part of year)
5) Stream Characteristics a) Substrate <input checked="" type="checkbox"/> Sand <input checked="" type="checkbox"/> Silt <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Cobbles <input checked="" type="checkbox"/> Other-describe: Massive boulders north of dam	
b) Average Water Depth 2 ft. - per WDNR	c) Vegetation in Stream <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Present - If known describe:
d) Identify Fish Species Present See <u>(Lower Fox River Basin Integrated Management Plan – August 2001)</u> (Appendix Z).	e) If water quality data is available, include this information (e.g. DNR or local discharger might have such records). See <u>(Proposed Remedial Action Plan Lower Fox River and Green Bay – October 2001)</u> (Appendix AA).

6) Are there any known endangered or threatened species affected by the project?

☐ No

☒ **Yes Identify the species and indicate whether it is on Federal or State lists.**

Bald eagle – Haliaeetus leucocephalus Federally-listed as threatened
 Dwarf lake iris – Iris lacustris Federally-listed as threatened

☒ **Section 7 coordination has been completed with the U.S. Fish & Wildlife Service. Describe mitigation required to protect the federally listed endangered species.**

The U.S Fish & Wildlife Service concluded that the proposed project will not affect the above listed species.

☒ **Coordination with DNR has been completed. Describe mitigation required to protect the State listed species.**

The WDNR has indicated a concern regarding the protection of Lake Sturgeon below the dam during their normal spawning period of April 7 to June 16. The project documents will incorporate construction restrictions in the spawning areas for that timeframe.

7) If bridge replacement, are swallow nests present?

☐ No

☒ **Yes - Estimated number of nests is:**

Swallows have been observed to frequent the existing bridge. As a result, it is assumed that swallow nests are present on the existing bridge. Depending on the alternative selected, bridge rehabilitation or demolition would have to be performed during non-nesting season between August and May or steps be taken to prevent nesting from occurring.

8) Is a U.S. Fish & Wildlife Depredation Permit required to remove swallow nests?

☐ Not Applicable ☐ Yes ☒ No - Describe mitigative measures

Demolition of existing structure will be completed during non-nesting times.

9) Describe land adjacent to stream. If wetland, give type.

Land adjacent to river has a riprap shoreline with mowed lawns beyond the riprap. (Wetland Investigation – June 18, 2001) (Appendix P)

10) Identify upstream or downstream dischargers or receivers (if any) within 0.8 kilometers (1/2 mile) of the project site.

Downstream of the location is U.S. Paper Mills Corporation (De Pere Division) and International Paper Corporation (Nicolet Paper Division).

11) Section 404 Permit ☒ Not Applicable - No fill to be placed in wetlands

☐ Applicable - Fill will be placed in wetlands.

Indicate area of wetlands filled Acres (Hectares)

☐ Individual Permit Review (10 \ 404)

☒ General Permit (GP) or Letter Of Permission (LOP) required to satisfy Section 404

Indicate which GP or LOP required

☐ Non-Reporting GP

☐ Provisional GP

☒ GP-1

☐ Provisional LOP

☐ Programmatic GP

12) Section 10 Waters For navigable waters of the United States (Section 10) indicate which Nationwide Permit is required (Exhibit 18)

Indicate whether Preconstruction Notification (PCN) to the U.S. Corps of Engineers (USACE) is:

☐ Required

☐ Submitted on (Date)

Status of PCN

USACE has made the following determination on (Date)

USACE is in the process of review, anticipated date of determination is: (Date)

13) Describe proposed work in, over, or adjacent to stream. Indicate whether the work is within the 100-year floodplain and whether it is a crossing or a longitudinal encroachment.

The proposed work would involve the placement of piers within the Fox River. The project will involve a bridge crossing of the river.

14) Discuss the effects of any backwater that would be created by the proposed action. Indicate whether the proposed activities would be consistent with NR 116, the National Flood Insurance Program, and Governor's Executive Order #73.

No backwater effect would take place at this location beyond what is allowed by law.

15) Describe and provide the results of coordination with any floodplain zoning authority.

The FEMA map provided in (Exhibit 26) displays the river channel as both the 100 and 500-year floodplain zone within the study area.

16) Would the proposal or any changes in the design flood, or backwater cause any of the following impacts?:

- ☒ **No impacts would occur**
- ☐ **Significant interruption or termination of emergency vehicle service or a community's only excavation route**
- ☐ **Significant flooding with a potential for property loss and a hazard to life**
- ☐ **Significant impacts on natural floodplain values such as flood storage, fish or wildlife habitat, open space, aesthetics, etc.**

17) Discuss existing or planned floodplain use and briefly summarize the project's effects on that use.

The existing floodplain will not be affected by the proposed bridge structure.

18) Discuss probable direct impacts to water quality within the floodplain, both during and after construction. Include the probable effects on plants, animals, and fish inhabiting or dependent upon the stream.

During construction the placement of piers and the removal of the old bridge will involve the agitation and removal of some sediments within the river channel. The project is located in one of the river stretches where efforts will take place to remove contaminated sediments. Sediment sampling and testing is currently underway. Contaminated sediment will be handled and disposed of in an acceptable Confined Disposal Facility.

19) Describe proposed measures to minimize adverse effects or to enhance beneficial effects.

Construction site erosion and sediment control will be part of project design and construction as set forth in TRANS 401 Wisconsin Administrative Code.

20) Erosion control or storm water management measures that will be used to protect the stream are shown on Factor Sheet O:

Standard WisDOT erosion control methods and stormwater management measures will be used to minimize or reduce runoff impacts.

- ☒ **Yes** ☐ **No** **Briefly Describe measures to be used such as sheet piling, cofferdam, turbidity barrier, barges, construction blackout window, etc.**

Piers construction in the river will be completed utilizing caissons or cofferdams. Depending on the alternative selected some sub structure/foundation activity may be restricted during high river flow periods due to the operation of the spillway and dam structure.